



**LG&E Energy LLC**  
220 West Main Street (40202)  
P.O. Box 32030  
Louisville, Kentucky 40232

February 24, 2006

Ms. Elizabeth O'Donnell  
Public Service Commission  
211 Sower Boulevard  
P. O. Box 615  
Frankfort, Kentucky 40601

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**FEB 24 2006**

**PUBLIC SERVICE  
COMMISSION**

Re: Case No. 99-441 **Sample Meter Testing Pilot Plan**

Dear Ms. O'Donnell:

The PSC Order in Case Number 99-441 allowed for a new sample-testing plan for participating electric utilities. This order required these same utilities to submit an annual report to the Commission.

Pursuant to the October 25, 2000 Revised Amended Sample Meter Testing Pilot Plan, Appendix A, Section I (4) and Appendix A, Section II (D)(3)(b), **Louisville Gas and Electric Company** submits the following:

The Certified Test Results of all new meters received  
(Attachment A)

2005 Statistical Sampling Test Results and Summary  
(Attachment B)

If you have any questions please do not hesitate to contact me.

Sincerely,

Martin J. Reinert  
Regulatory Analyst II  
Regulatory Affairs

Attachments

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# Attachment A

[illegible][illegible]

# Attachment B

LOUISVILLE GAS & ELECTRIC COMPANY  
2005 SAMPLE TEST PROGRAM (JANUARY 1, 2005 TO DECEMBER 31, 2005)

DATE 01/04/2006  
PAGE 1

GROUP NAME	METER TYPE	IN-SERVICE POPULATION	SAMPLE QUANTITY	METERS TESTED	PASSED/ FAILED
AB1	G	330	20	19	PASS

ANALYZED TEST RESULTS PER ANSI/ASQC Z1.9-1993  
DOUBLE SPECIFICATION LIMIT - VARIABILITY UNKNOWN - STANDARD DEVIATION METHOD  
ONE AQL VALUE FOR BOTH UPPER AND LOWER SPECIFICATION LIMIT COMBINED  
AQL = 2.5% - INSPECTION LEVEL II - NORMAL INSPECTION

***** DEVICE NUMBER AND FULL LOAD TEST ACCURACY DATA *****														
725038	J	99.4	725062	J	100.3	725065	J	100.4	725091	J	100.2	725114	J	100.3
725172	J	100.3	725200	J	100.3	725246	J	100.4	725275	J	100.3	725282	J	100.3
725310	J	100.2	725341	J	100.2	725345	J	100.5	725359	J	100.3	725386	J	100.3
725398	J	99.5	725436	J	100.1	725512	J	100.0	725682	J	100.2			

## INFORMATION NEEDED

## VALUE OBTAINED

Sample Size: n	19
Sum of Measurements: Sum(X)	1,903.5
Sum of Squared Measurements: Sum(X ** 2.0)	190,702.07
Correction Factor(CF): ( Sum(X) ** 2.0) / n )	190,700.64
Corrected Sum of Squares(SS): Sum(X ** 2.0) - CF	1.43
Variance(V): SS / (n-1)	0.0794
Estimate of Lot Standard Deviation s: (V ** 0.5)	0.2818
Sample Mean X Bar: Sum(X) / n	100.18
Upper Specification Limit: U	102.00
Lower Specification Limit: L	98.00
Quality Index(Qu): (U - Xbar) / s	6.46
Quality Index(Ql): (Xbar - L) / s	7.74
Estimate of Lot Percent Ncf. Above U: PU	0.00%
Estimate of Lot Percent Ncf. Below L: PL	0.00%
Total Estimate Percent Ncf. In Lot: P = PU + PL	0.00%
Maximum Allowable Percent Ncf.: M	6.18%
Acceptability Criterion: (PU + PL) <= M	PASS

\*\*\*\*\* DEVICES SELECTED BUT NOT TESTED \*\*\*\*\*

DEVICE#	"NO TEST" CODE	COMMENTS
725778	H	HIT BY LIGHTNING

# **LG&E**

## **2005 SAMPLE**

### **ELECTRIC METER SUMMARY**

#### **SAMPLE**

In-Service Population	367,710	Divided into 49 Lots
Sample Quantity	3,243	
Meters Tested	3,231	
Meters Not Tested	12	
Failed Lots	0	
Failed Lot Meters	0	

#### **DETAIL OF METERS NOT TESTED**

##### **Lost/Stolen**

676966	I70-10	Not located, presumed lost
736821	J5-8	Not located, presumed lost

##### **Lightning**

725778	AB1
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##### **Tamper**

546514	MSII-2
575970	MSII-2

##### **Open Potential Coil**

754181	C1
489910	I70-5
553503	I70-6
558233	J5-2
619842	MSII-4

##### **Vacant No Access**

607052	I70-8
675000	MSII-6

E.ON U.S. LLC.  
Rates and Regulatory  
220 West Main Street  
5th Floor  
Louisville, KY 40202

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Kentucky Public Service Commission  
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